

Electric cylinder ESBF-BS-63-300-25P

Part number: 574102

FESTO



Data sheet

| Feature | Value |
|--------------------------------------|--|
| Working stroke | 300 mm |
| Size | 63 |
| Stroke | 300 mm |
| Piston rod thread | M16x1.5 |
| Reversing backlash theoretical | 40 µm |
| Spindle diameter | 25 mm |
| Spindle pitch | 25 mm/U |
| Torsional backlash at piston rod +/- | 0.4 deg |
| Based on standard | ISO 15552 |
| Mounting position | optional |
| Piston-rod end | Male thread |
| Type of motor | Servo motor |
| Position detection | Via proximity switch |
| Design | Electric cylinder with ball screw |
| Spindle type | Ball screw |
| Protection against torque/guide | With plain-bearing guide |
| Max. acceleration | 25 m/s ² |
| Max. rotational speed | 3260 rpm |
| Max. speed | 1.35 m/s |
| Repetition accuracy | ±0.01 mm |
| Duty cycle | 100% |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Storage temperature | -20 °C...60 °C |
| Suitable for use with food | See supplementary material information |
| Relative air humidity | 0 - 95% |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C...60 °C |
| Max. drive torque | 26.5 Nm |
| Max. radial force at drive shaft | 700 N |
| Max. feed force Fx | 6000 N |

| Feature | Value |
|--|---|
| Frictional torque independent of load | 0.5 Nm |
| Reference value effective load, horizontal | 600 kg |
| Reference value effective load, vertical | 600 kg |
| Mass moment of inertia JH per metre of stroke | 3.0526 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.15831 kgcm ² |
| Mass moment of inertia JO | 0.65043 kgcm ² |
| Maintenance interval | Life-time lubrication |
| Moving mass for 0 mm stroke | 1829 g |
| Additional moving mass per 10 mm stroke | 52 g |
| Basic weight for 0 mm stroke | 3163 g |
| Additional weight per 10 mm stroke | 87 g |
| Type of mounting | Via female thread Or accessories |
| Interface code, actuator | D60 |
| Note on materials | RoHS-compliant |
| Material cover | Cast aluminium, coated |
| Material piston rod | High-alloy stainless steel |
| Material screws | Galvanised steel |
| Material ball screw nut | Rolled steel |
| Material spindle | Rolled steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |